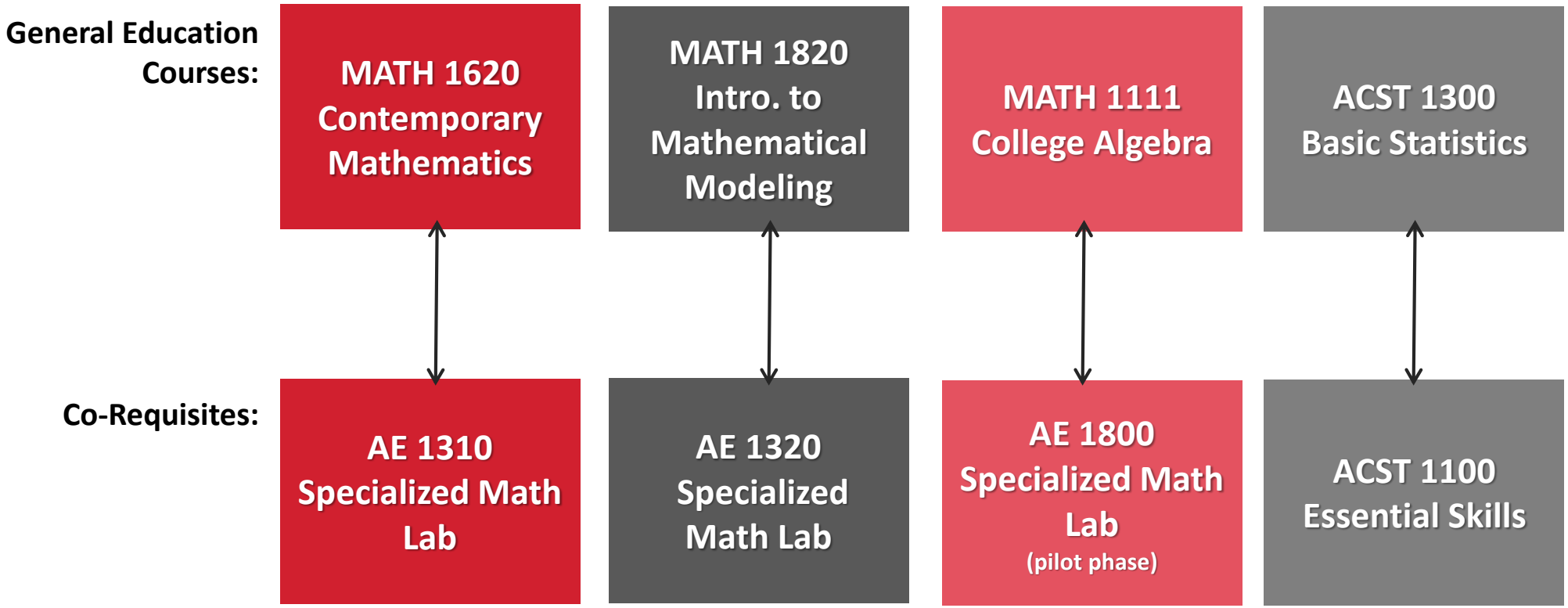
Corequisite Models for Missouri Math Pathways

Math Pathways Corequisite Model

(Initiated: Fall 2014)

UNIVERSITY OF CENTRAL MISSOURI
LEARNING TO A GREATER DEGREE



Corequisite Model

UNIVERSITY OF CENTRAL MISSOURI
LEARNING TO A GREATER DEGREE

College Level General Education Courses

- 3 credit hours, meeting on MWF
- The same course for students with or without learning support needs
- Blended class of students with and without learning support needs
- Sequence of topics is prescribed
- Housed in the School of Computer Science and Mathematics

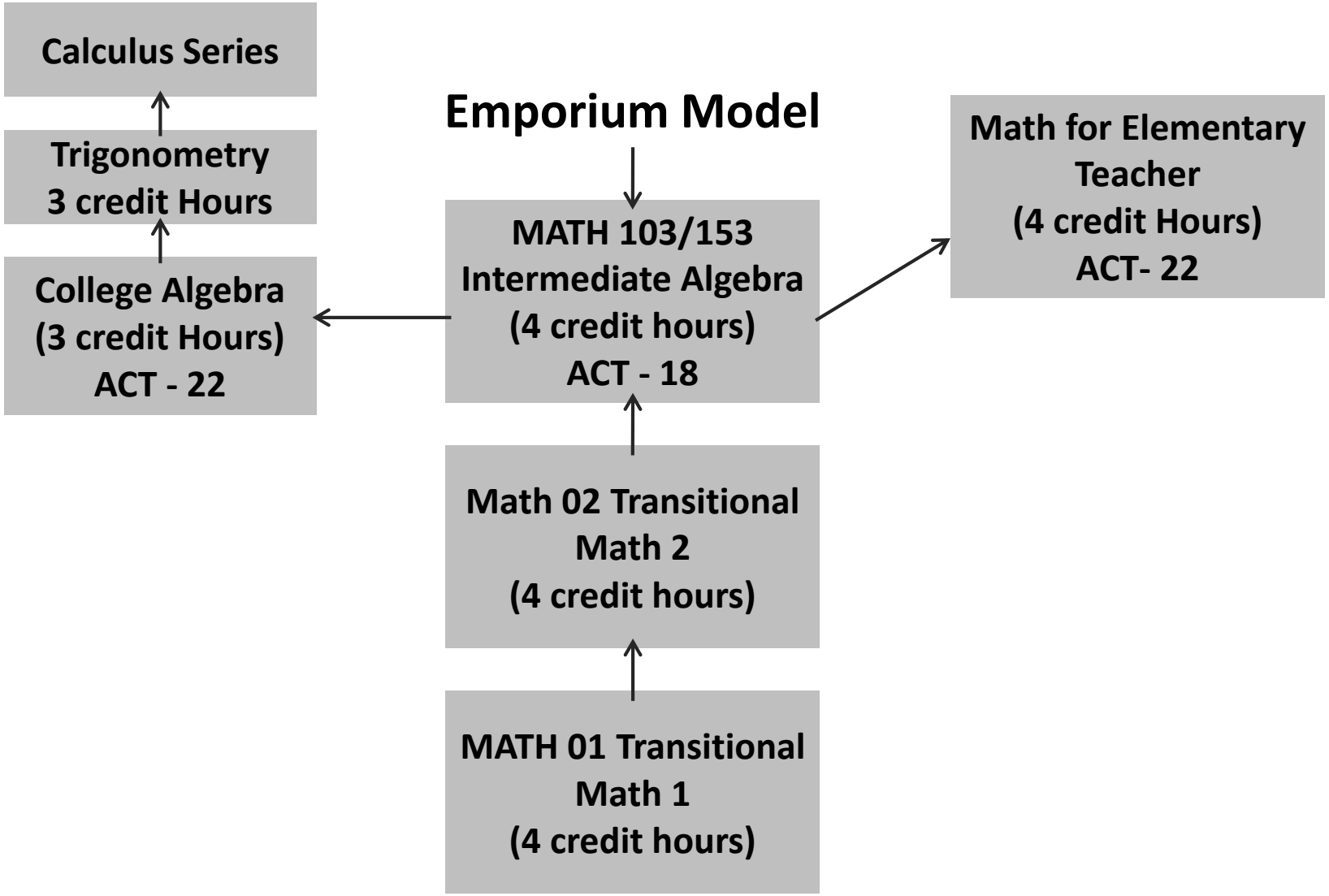
Corequisite Support Lab

- 2 credit hours, meeting on TR
- Linked to specific sections of MATH courses; may include students from different sections of MATH courses when enrollment is low
- MATH corequisites housed in the Department of Academic Enrichment
- ACST corequisite housed in the School of Computer Science and Mathematics

Corequisite Models for Missouri Math Pathways

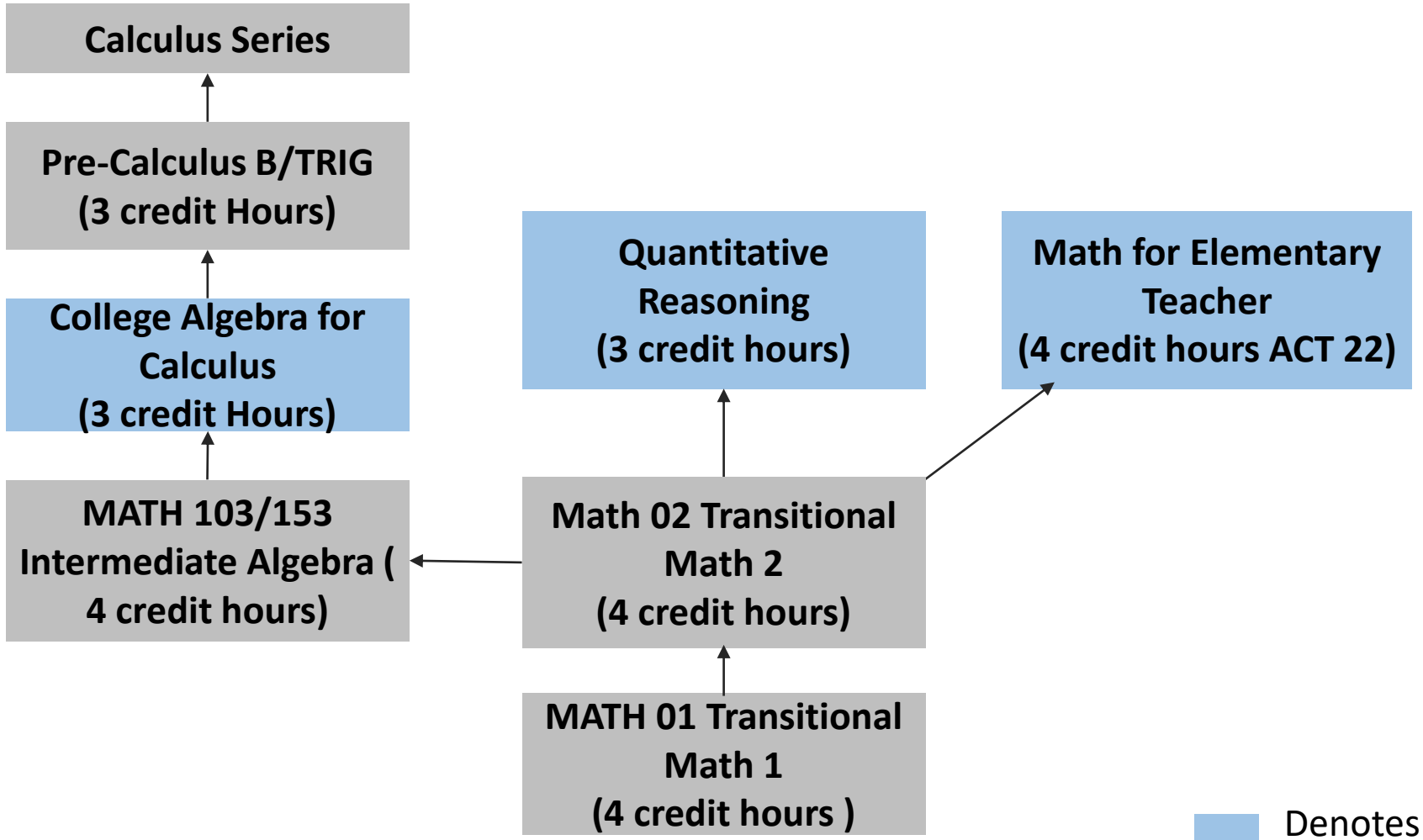
Current Math Sequence

Three Rivers College
The Community College of Southeast Missouri



Fall 2018

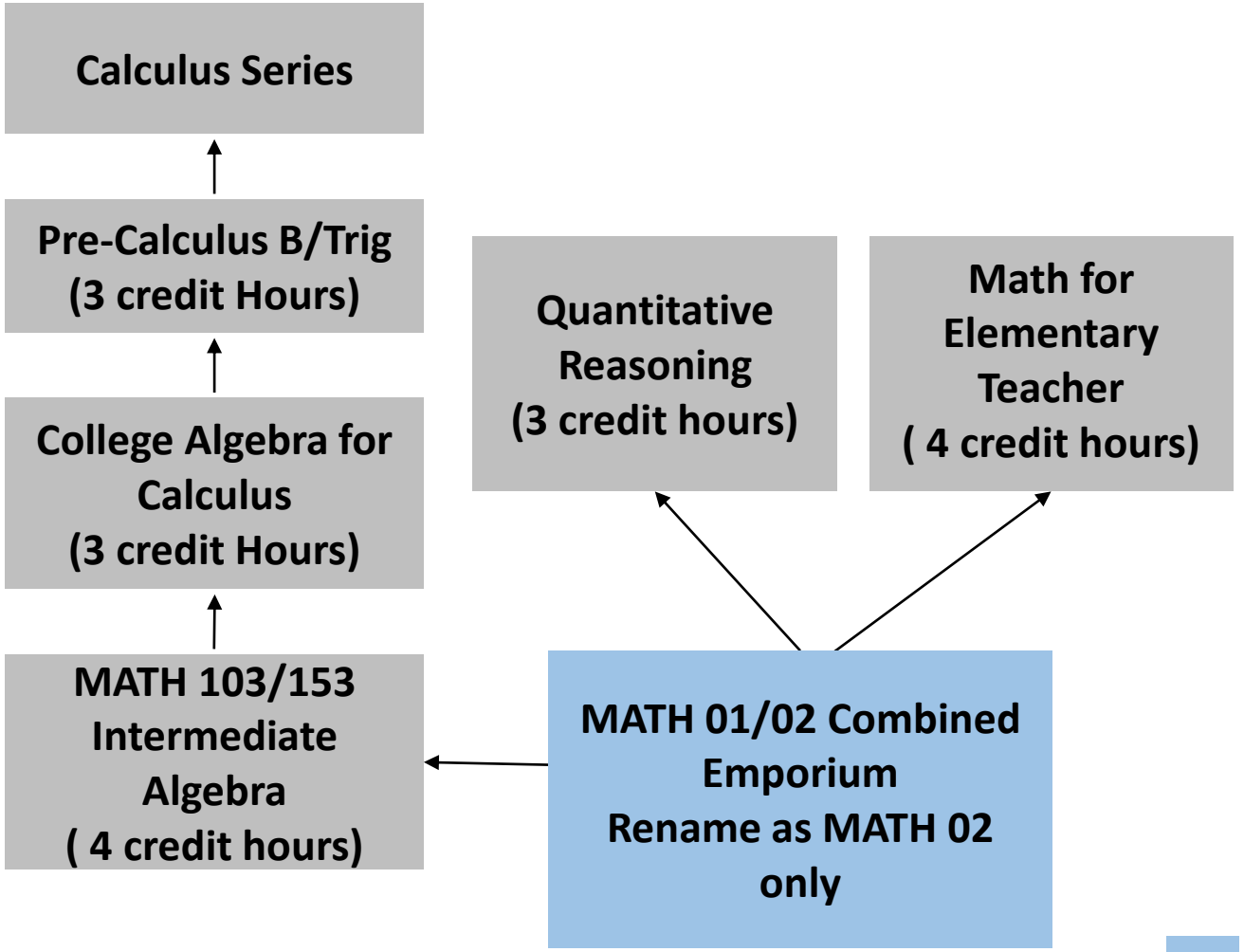
Three Rivers College
The Community College of Southeast Missouri



Denotes the changes from the previous semester

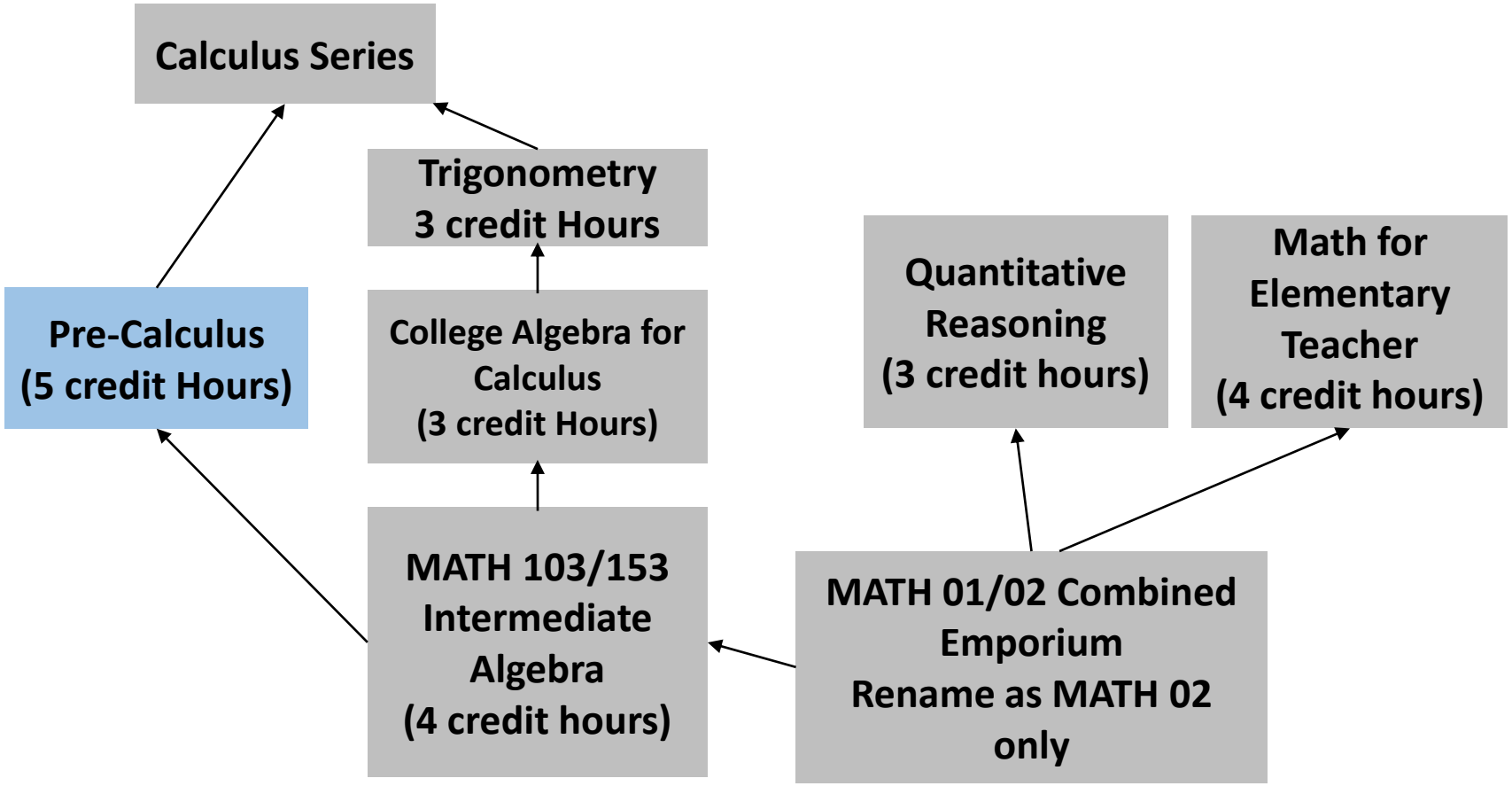
Spring 2019

Three Rivers College
The Community College of Southeast Missouri



Fall 2019

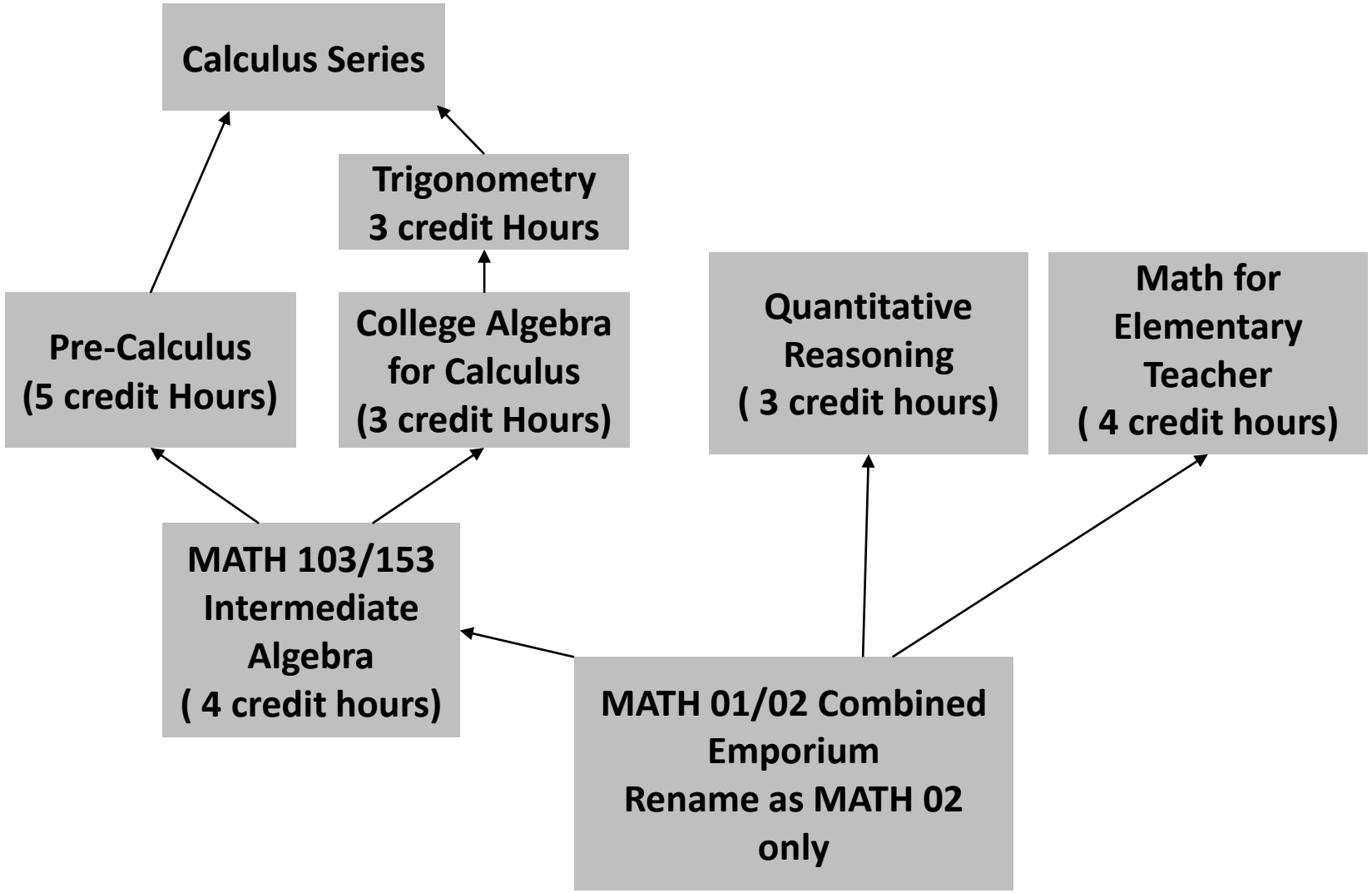
Three Rivers College
The Community College of Southeast Missouri



Denotes the changes from the previous semester

Final Plan

Three Rivers College
The Community College of Southeast Missouri

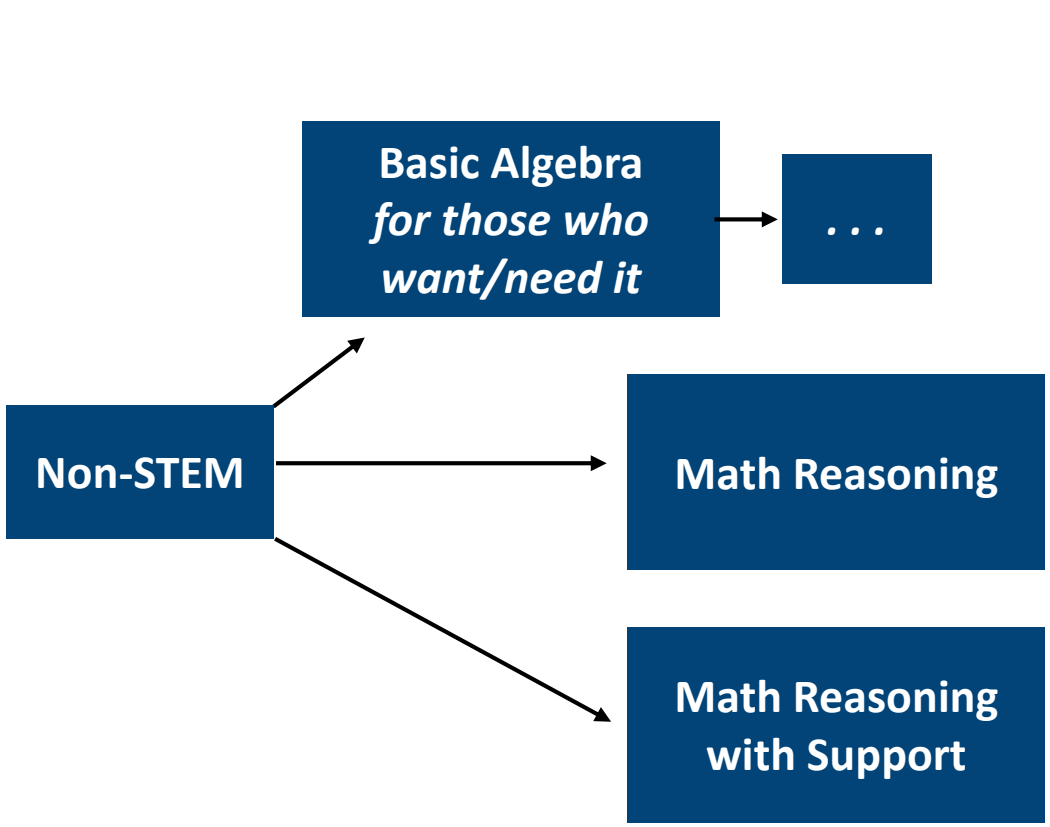


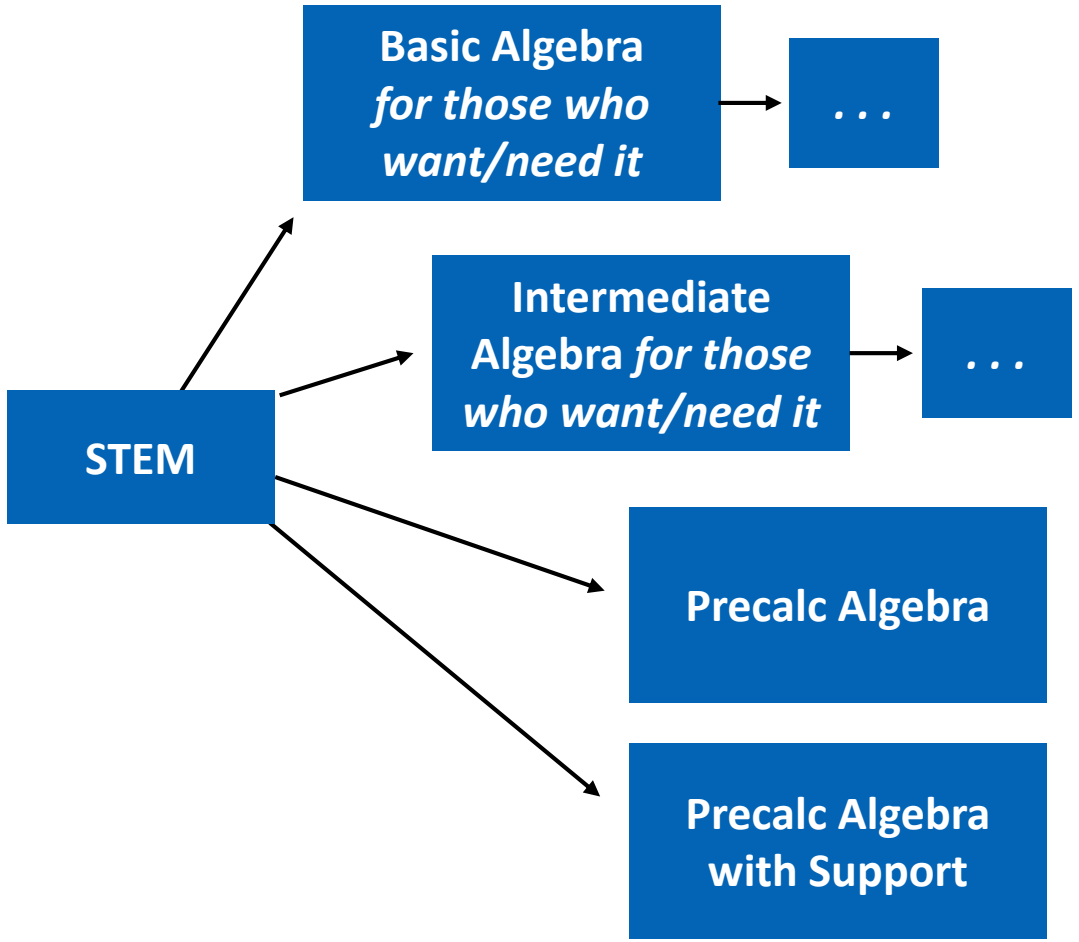
Corequisite Models for Missouri Math Pathways

Math Pathways Corequisite Model

(Implementation: Spring 2018)

OZARKS TECHNICAL COMMUNITY COLLEGE





Corequisite Model for Math Reasoning

OZARKS TECHNICAL COMMUNITY COLLEGE

Terminal Courses

- Math Reasoning
  - 3 credit-hours
  - Population: Non-STEM students who feel they're ready

- Math Reasoning with Support
  - 4 credit-hours
  - Population: Non-STEM students who want extra support

Available Prep Courses

- Basic Algebra
  - 3 credit-hours

Corequisite Model for Precalculus Algebra

OZARKS TECHNICAL COMMUNITY COLLEGE

Terminal Courses

- Precalculus Algebra
  - 3 credit-hours
  - Population: STEM students who feel they're ready
- Precalculus Algebra with Support
  - 4 credit-hours
  - Population: STEM students who want extra support

Available Prep Courses

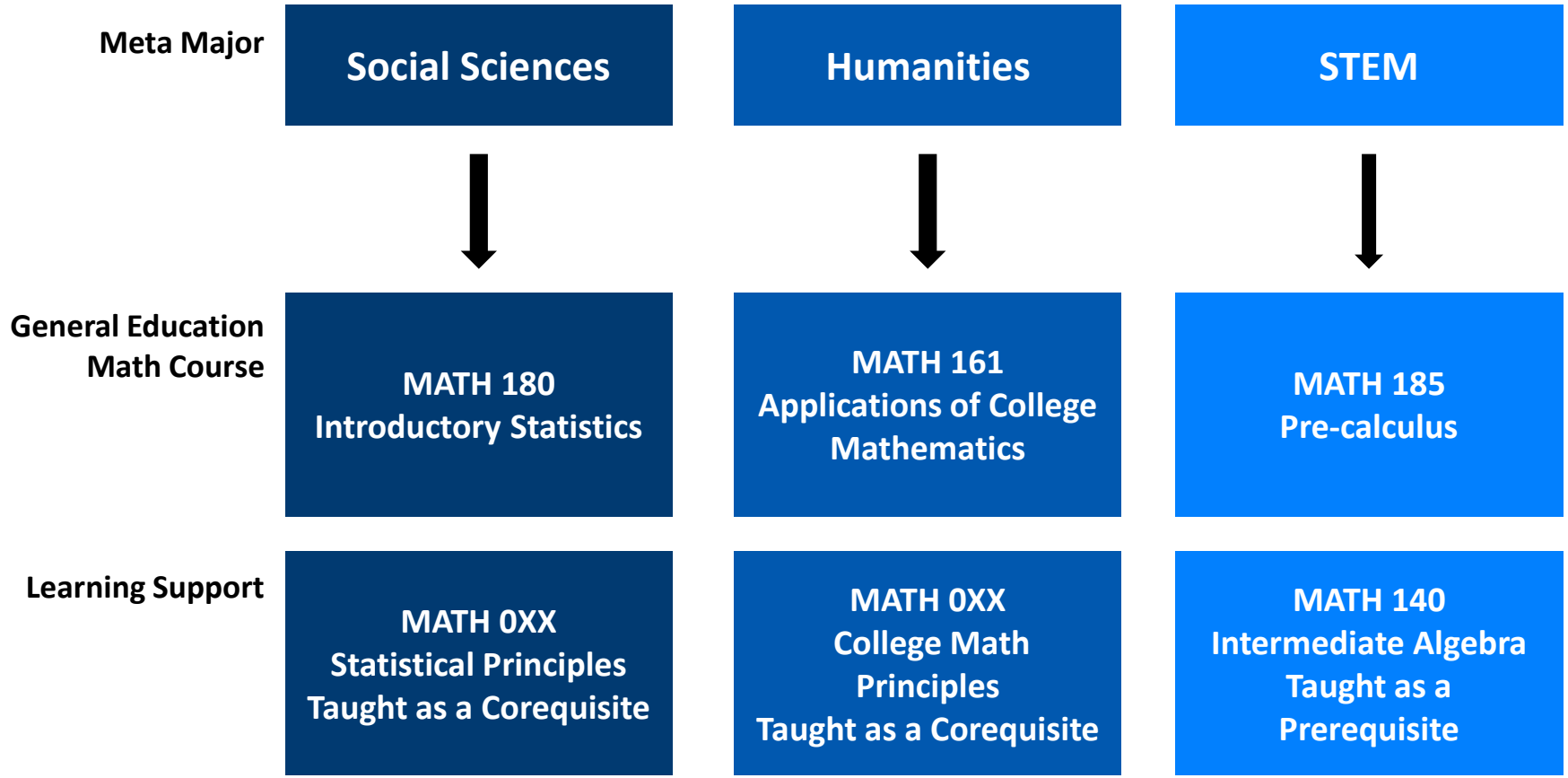
- Basic Algebra
  - 3 credit-hours
- Intermediate Algebra
  - 4 credit-hours

Corequisite Models for Missouri Math Pathways

Math Pathways Corequisite Model

(Implementation: Fall 2018)

St. Louis Community College



Corequisite Model for Statistical Reasoning: Structure

St. Louis Community College

College Level: MATH 180

- 4 credit hours
- The same course for students with or without learning support needs
- Blended class of students with and without learning support needs
- Sequence of topics is prescribed

MATH 180
Introductory Statistics

Corequisite: MATH 0XX

- 2 credit hours
- May contain students from several different sections of MATH 180

MATH 0XX
Statistical Principles

Corequisite Model for Quantitative Reasoning: Structure

St. Louis Community College

College Level: MATH 161

- 4 credit hours
- The same course for students with or without learning support needs
- Blended class of students with and without learning support needs
- Sequence of topics is prescribed

MATH 161
Applications of College Mathematics

Corequisite: MATH 0XX

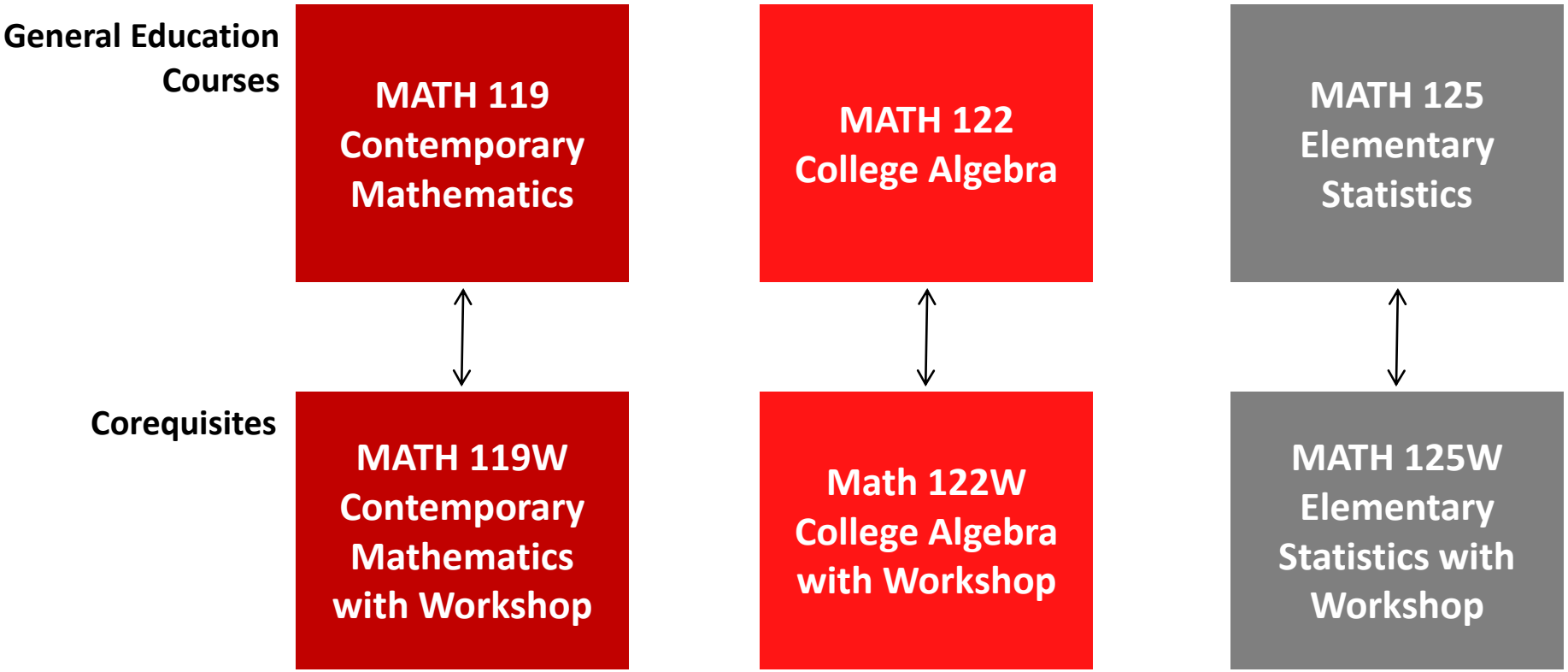
- 2 credit hours
- May contain students from several different sections of MATH 161

MATH 0XX
College Math Principles

Corequisite Models for Missouri Math Pathways

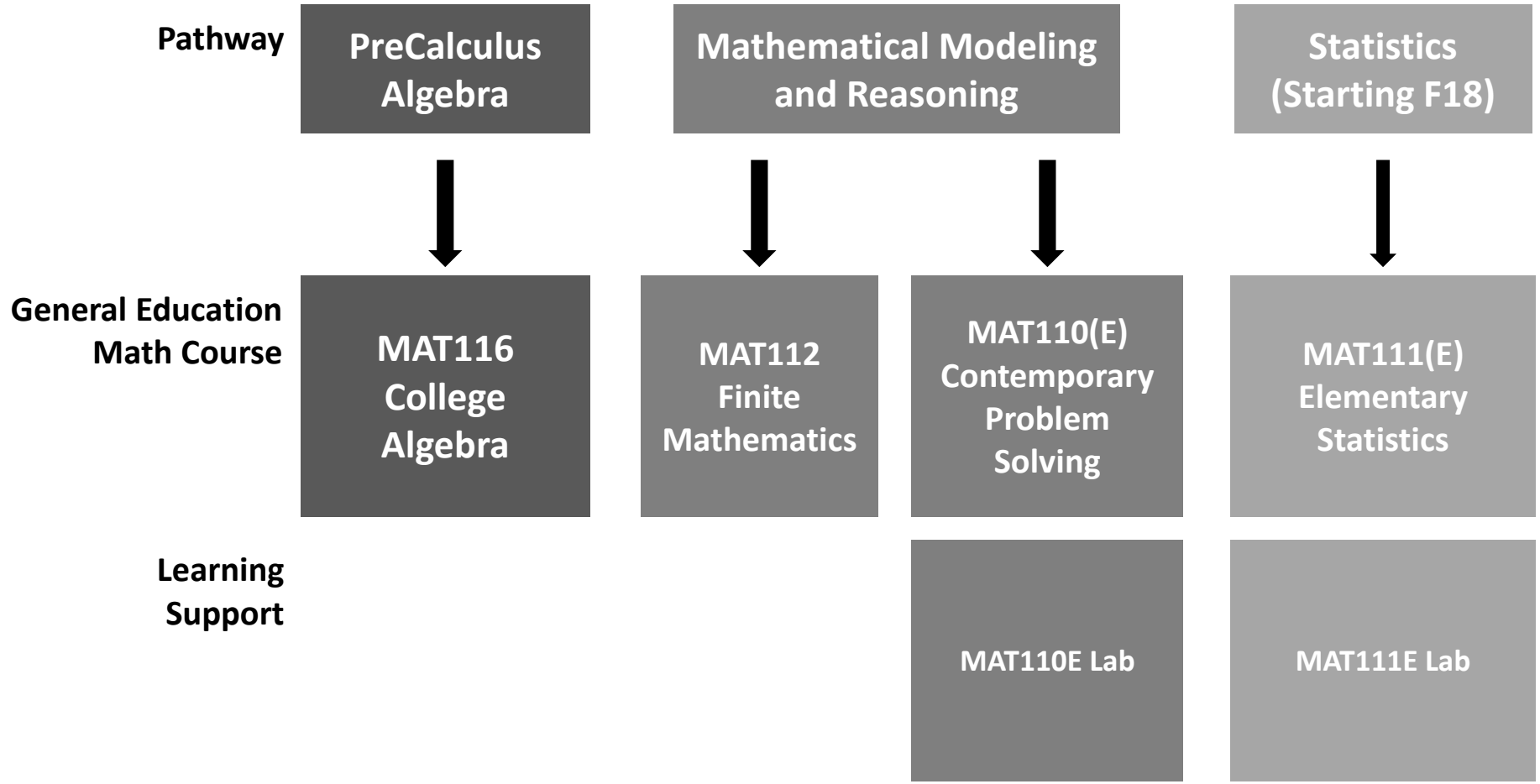
Math Corequisite Model

NorthCentral MISSOURI COLLEGE



Corequisite Models for Missouri Math Pathways

Math Pathways Corequisite Model



Corequisite Model

- Students with an ACT 18 – 21 or Math Placement Exam score of 40% - 69% can enroll in MAT110E together with a corequisite component (lab).
- Students enroll in MAT110E for 4 credit hours and a MAT110E lab section. (Students who are able to enroll directly in MAT110 w/o lab receive 3 credit hours.)
- Students choose lab that best fits with their schedule – may have different instructors for lab and lecture section.

MAT110E Lab

MATH 110E Contemporary Problem Solving

Requirements to pass the lab:

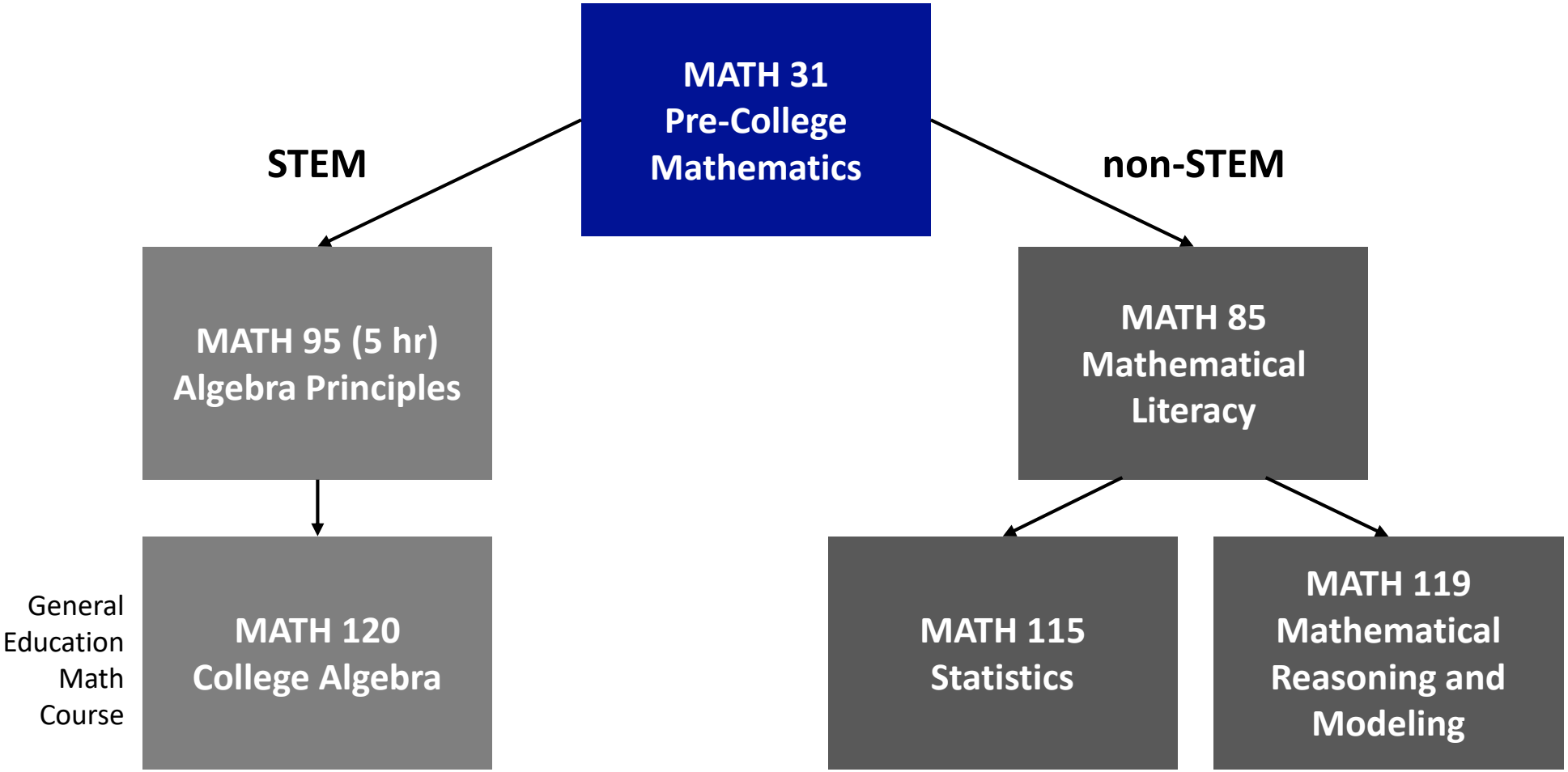
1. Complete 10 of 12 homework banks (80%) on WebWork with an 80% or higher and attend *and engage in* 11 of 14 first class days each week, OR
2. Complete the Math Placement Exam with a 70% or higher.

*Students who fail the lab will receive no higher than a D in the credit bearing course.

Corequisite Models for Missouri Math Pathways

Math Pathways Model
(Implementation: Fall 2018)

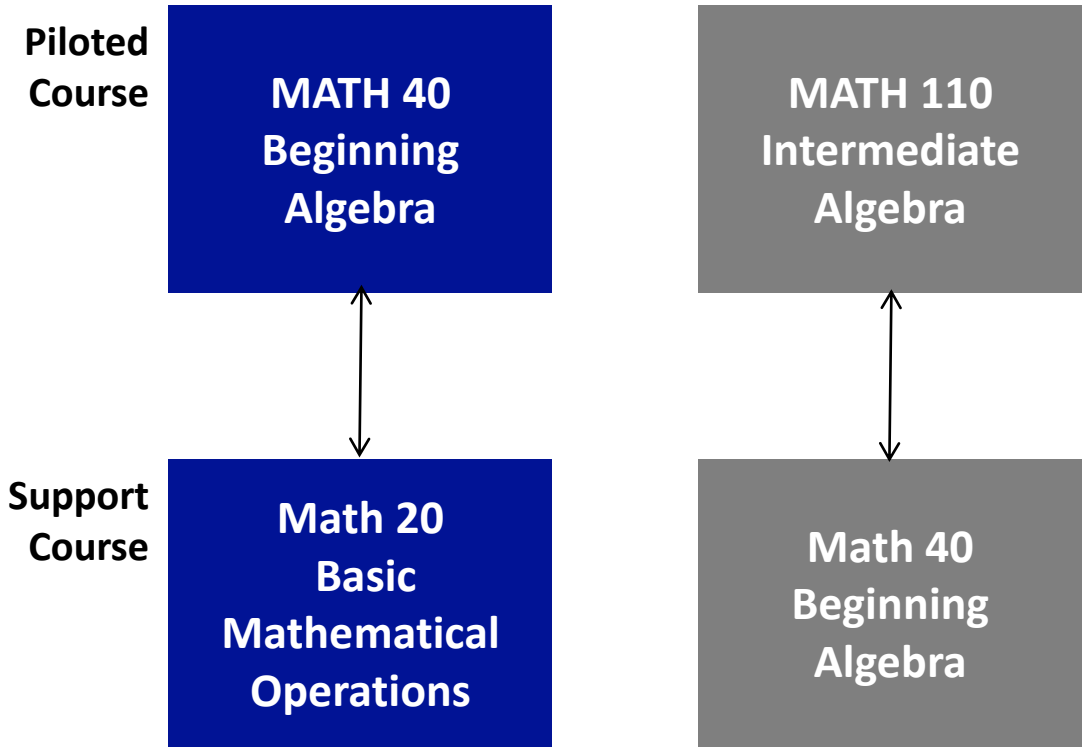
Metropolitan Community College



Math Corequisites

(Piloted via Title III: Fall 2014 & Fall 2016)

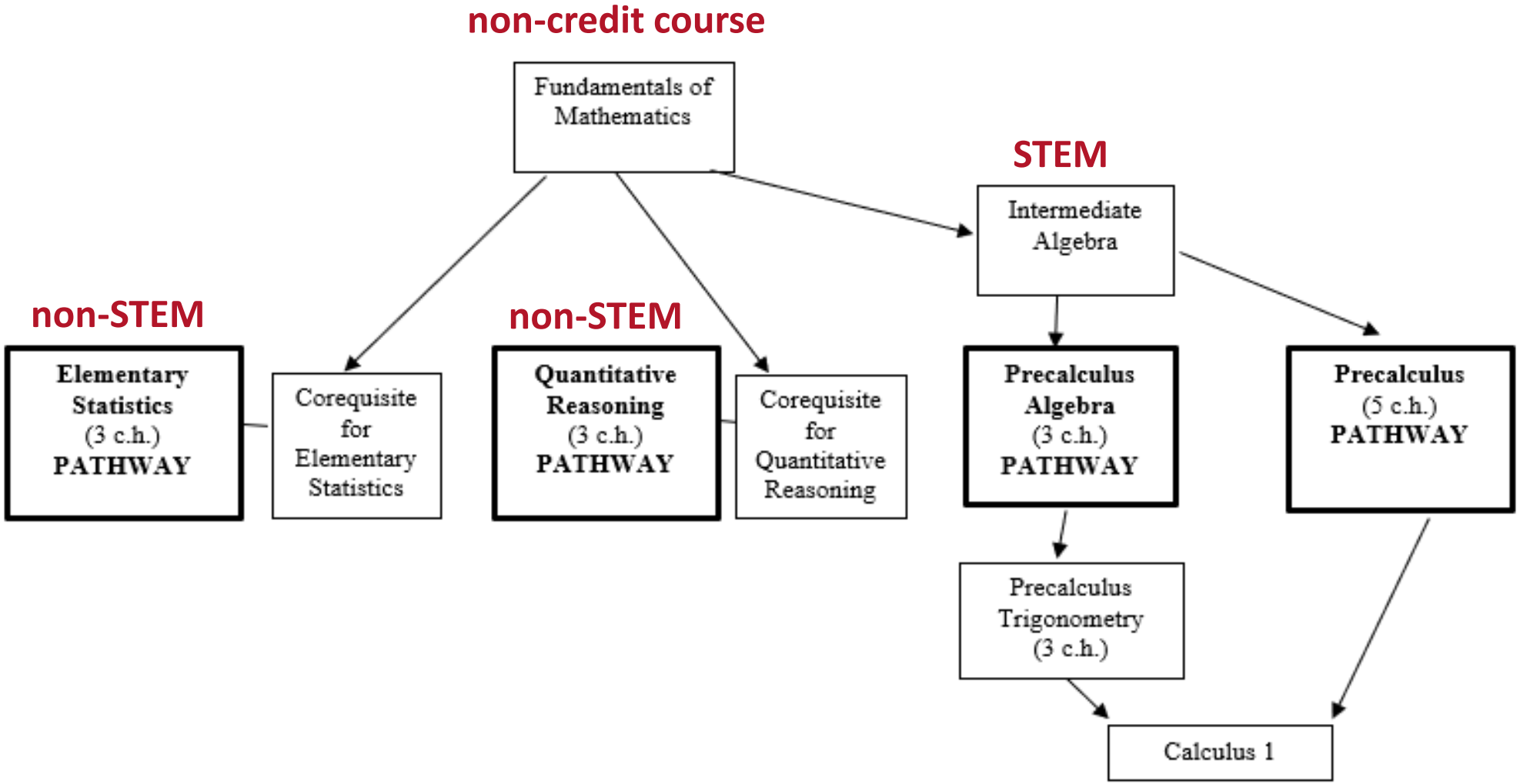
Metropolitan Community College



Corequisite Models for Missouri Math Pathways

Math Pathways
(Fall 2018)

MACC
MOBERLY AREA COMMUNITY COLLEGE



Math Pathways
(Fall 2018)

MACC
MOBERLY AREA COMMUNITY COLLEGE

College-Level General Education Courses

- 3 credit hours (with the exception of 5 c.h. Precalculus)
- The same course for students with or without corequisite needs
- Blended class of students with and without corequisite needs
- Textbook and curriculum are consistent across all sections
- Same instructor for both college-level and corresponding corequisite course

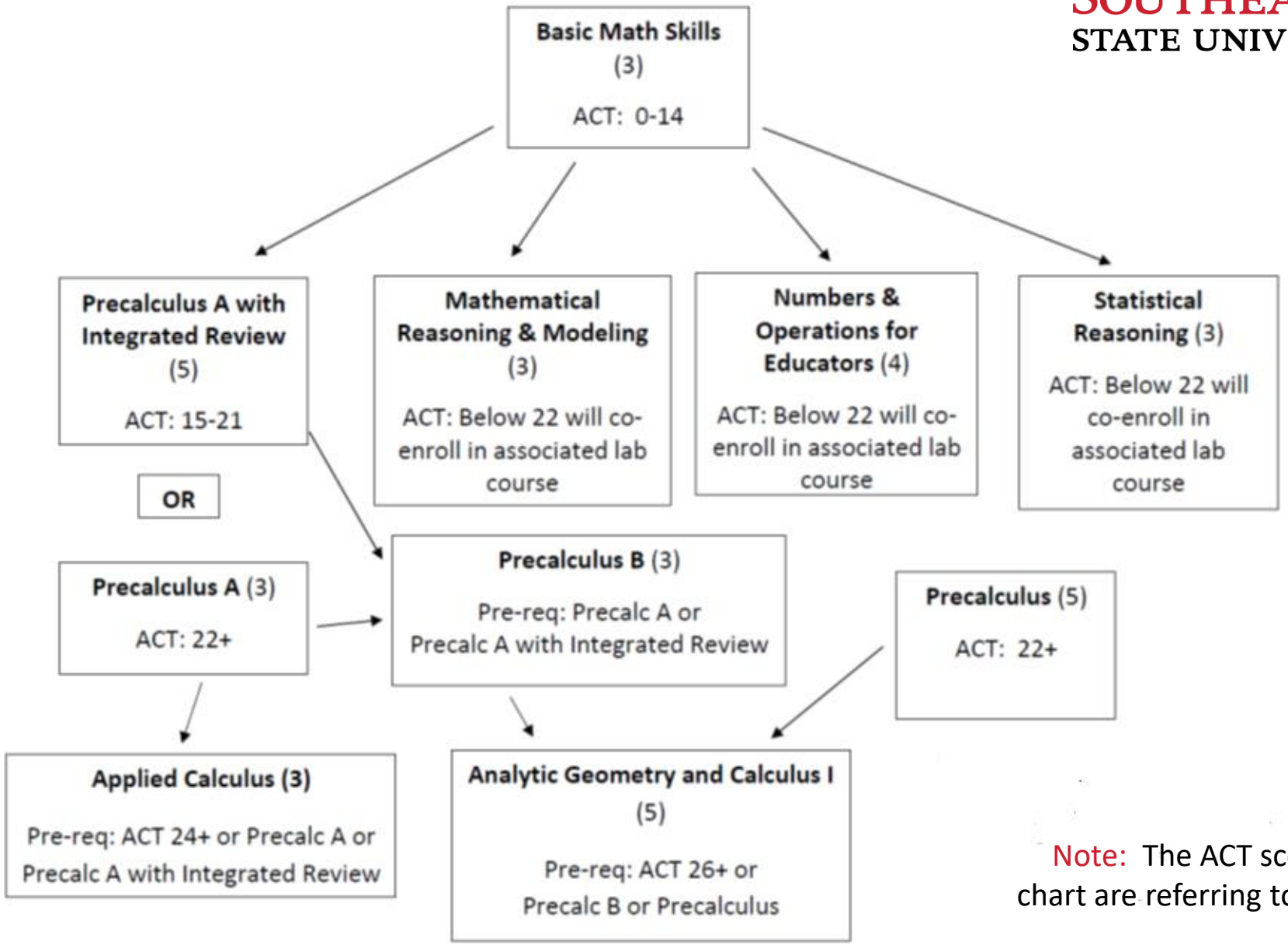
Corequisite Courses

- Credit hours are yet to be determined (1-3 c.h.)
- Course-specific corequisites for Elementary Statistics and Quantitative Reasoning
- Same instructor for both college-level and corresponding corequisite course

Corequisite Models for Missouri Math Pathways

Math Pathways and Corequisites
(Fall 2018)

SOUTHEAST MISSOURI STATE UNIVERSITY · 1873



Note: The ACT scores listed on the flow chart are referring to ACT Math subscores.

Plan for Fall

SOUTHEAST MISSOURI STATE UNIVERSITY · 1873

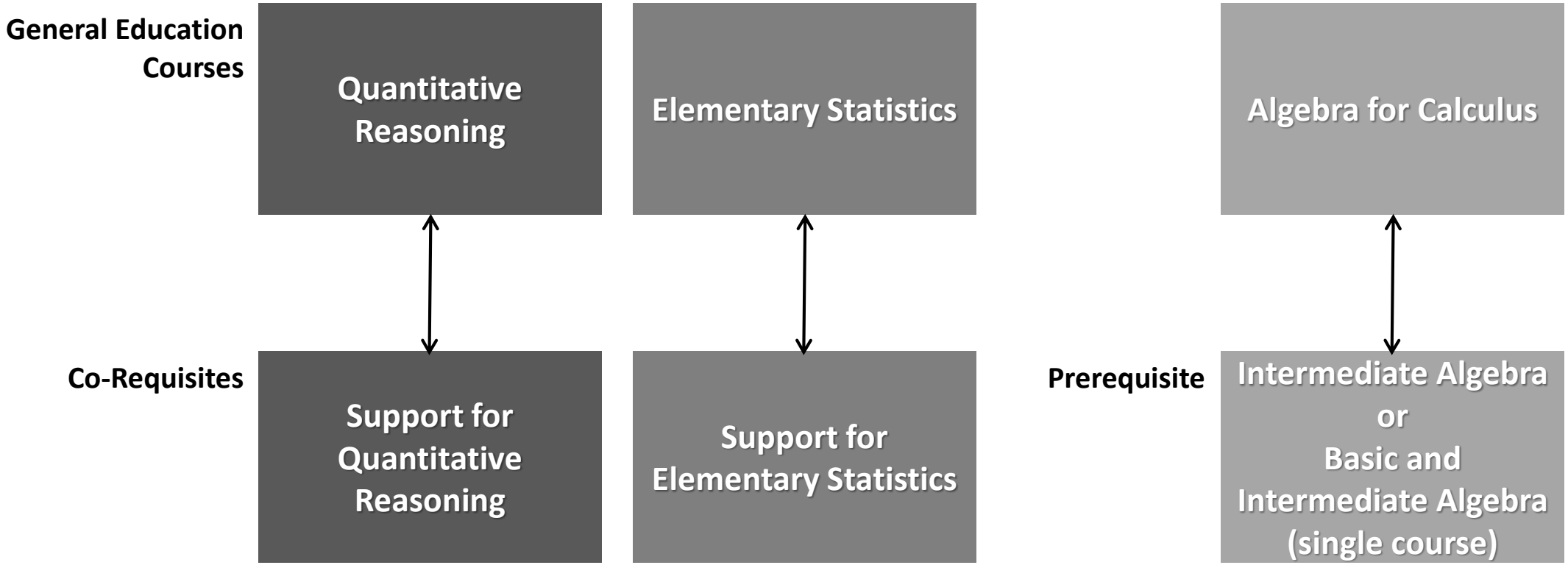
- Gateway and developmental taken simultaneously
- Students enroll in each course separately and receive two grades
- Developmental teachers also teach gateway course
- Number and Operations for Educators (childcare, early childhood, elementary education majors)
  - Number and Operations for Educators lab
- Survey of Mathematics (liberal arts majors)
  - Survey of Mathematics lab
- Statistical Reasoning (nurses, communications disorders, criminal justice)
  - Statistical Reasoning lab
- PreCalculus A with Integrated Review (STEM, Business)
- PreCalculus A
- PreCalculus B
- PreCalculus

Corequisite Models for Missouri Math Pathways

Math Pathways Corequisite Model

(Initiated Fall 2017)

CROWDER COLLEGE



Corequisite Model

CROWDER COLLEGE

College Level General Education Courses: Quantitative Reasoning and Elementary Statistics

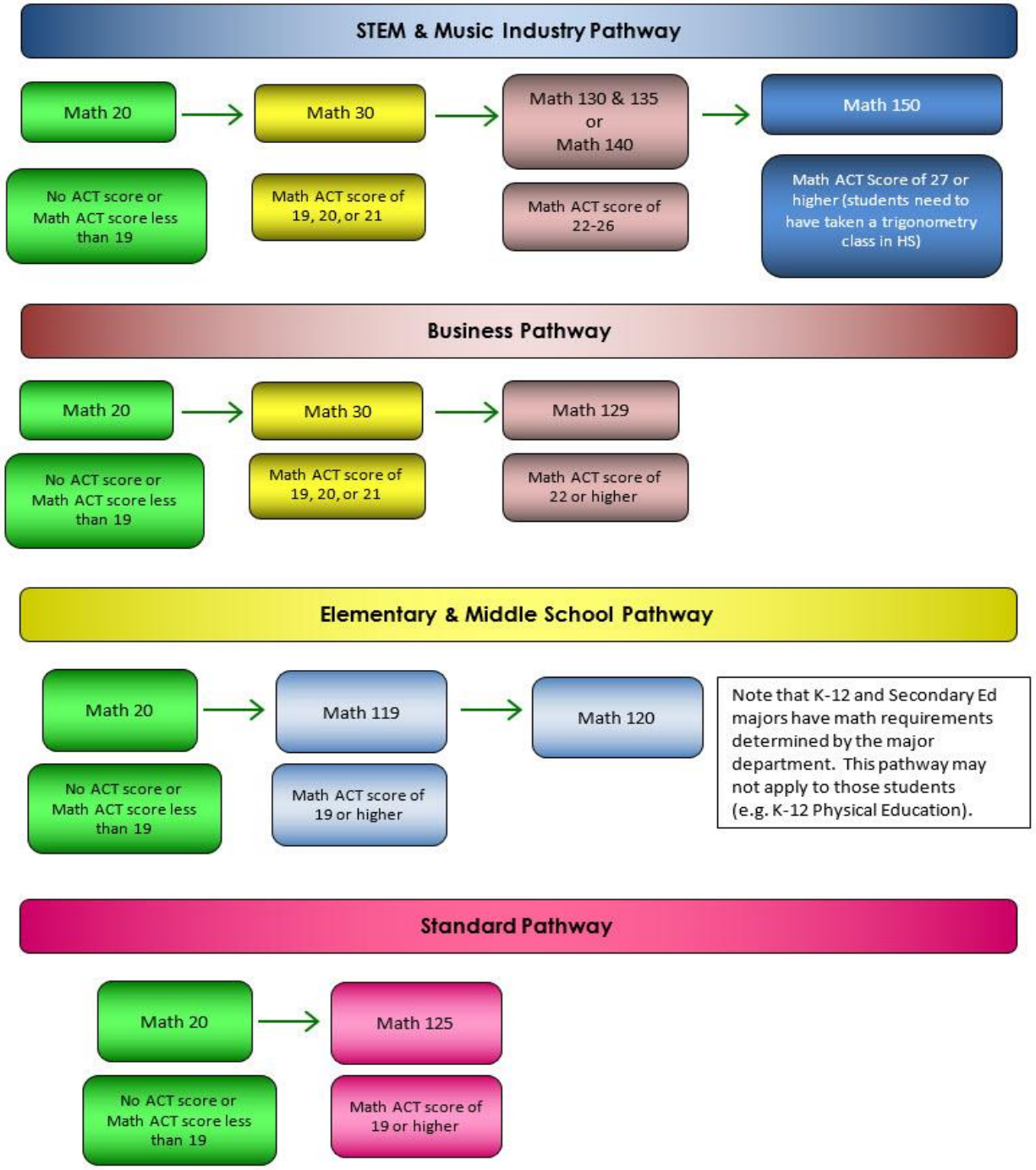
- 3 credit hours, typically meeting 2 days per week
- The same course for students with or without learning support needs
- Blended class of students with and without learning support needs
- Sequence of topics is prescribed

Corequisite Support Course

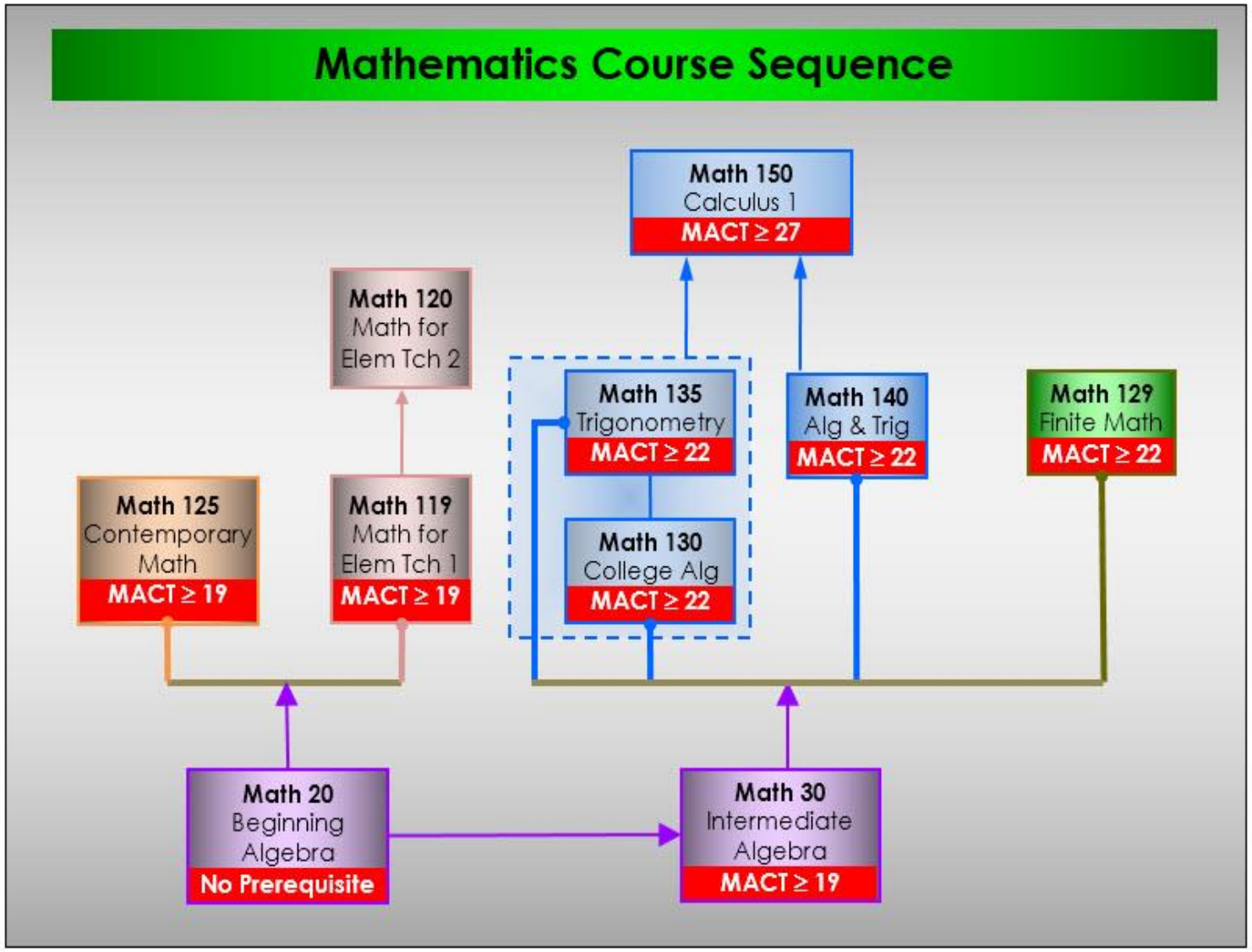
- 2 credit hours, typically meeting 2 days per week
- May contain students from several sections of the general education course

Corequisite Models for Missouri Math Pathways

Math Pathways



Corequisite Model



Students with a Math ACT of 19 or above can enter directly in credit bearing Contemporary Math or the two-semester sequence for the Education, STEM or Business Pathway

Students with Math ACT of 18 or below can obtain college credit on the Contemporary Math Pathway in the two-semester model.

Plans to pilot a one-semester coreq version of Contemporary Math in FA19.

Corequisite Models for Missouri Math Pathways

Math Pathways

State Fair Community College

Non-STEM Pathway

Pre Algebra
(3 credits)

↓

Intermediate Algebra w/ Review
(5 credits)

OR DEPENDING ON PLACEMENT

Intermediate Algebra
(3 credits)

↓

Mathematical Reasoning and Modeling,
Statistical Reasoning,
or Contemporary Math
(3 credits each)

Non-STEM Pathway

Pre Algebra
(3 credits)

↓

Corequisite
(2 credits)

AND

Mathematical Reasoning and Modeling,
Statistical Reasoning,
or Contemporary Math
(3 credits each)

STEM Pathway

Pre Algebra
(3 credits)

↓

Intermediate Algebra W/ Review
(5 credits)

OR DEPENDING ON PLACEMENT

Intermediate Algebra
(3 credits)

↓

Precalculus A
(3 credits)

↓

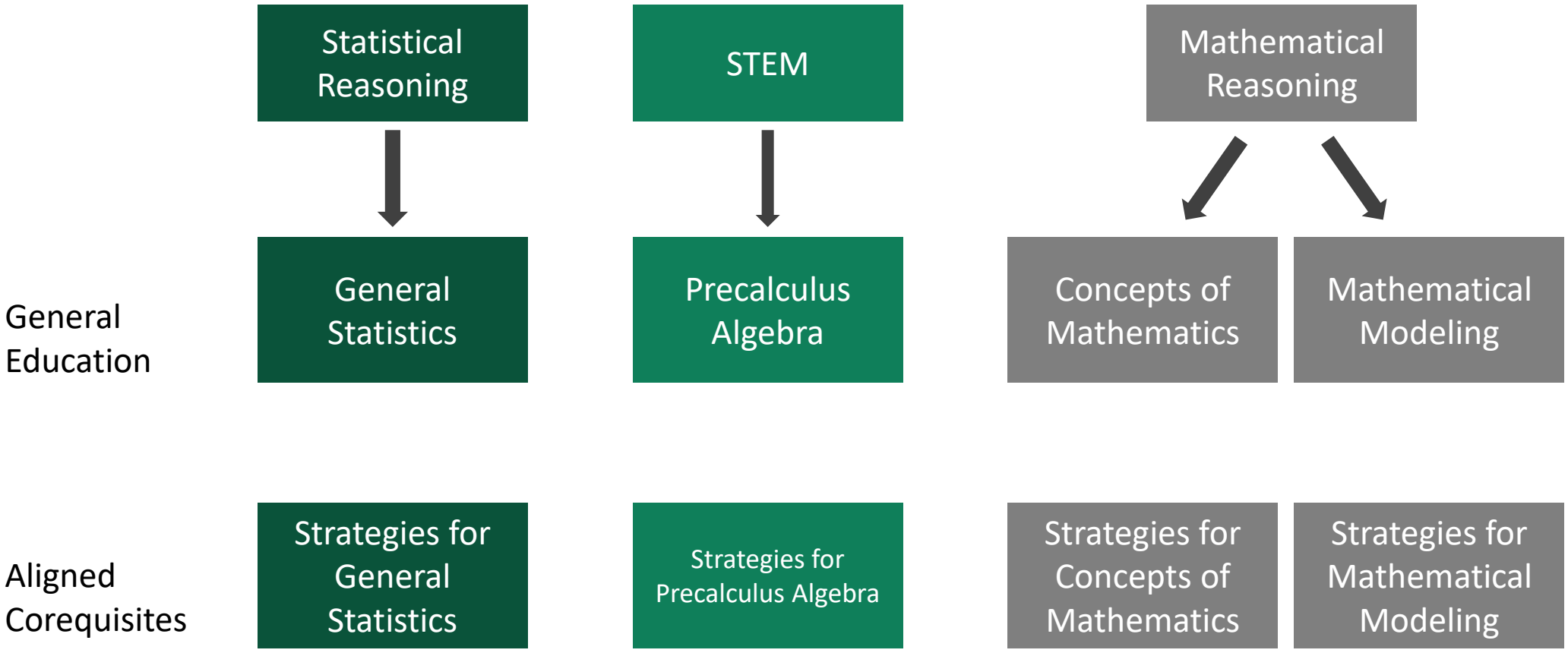
Precalculus B
(3 credits)

Fall 2018

Corequisite Models for Missouri Math Pathways

Math Pathways Model

NORTHWEST
MISSOURI STATE UNIVERSITY



Corequisite Model

NORTHWEST
MISSOURI STATE UNIVERSITY

College Level General Education Courses

- Blended sections allow for interaction between students with and without learning support needs
- Faculty collaborate on course outline when multiple instructors teach the same course

Corequisite “Strategies” Courses

- Students not meeting the prerequisite for Precalculus (ACT Math score or 22 or high school cum. GPA of at least 3.5) must defer to Precalculus Algebra.
- For all other courses, students are automatically enrollment in co-requisite courses if ACT Math score is below 22 and high school cum. GPA is below 3.0.
- Students enroll in 1-2 credit-hours for corequisite.
- Credit-hours vary depending on whether the course is terminal for specific degree programs
- Corequisite sections include students from different sections of credit-bearing courses
- Corequisites are taught by mathematics faculty who also teach at least one section of the aligned, credit-bearing course
- Faculty are assisted in corequisite courses by department paid, student study-group leaders. Study-group leaders also host evening, homework support sessions.

Corequisite Models for Missouri Math Pathways

Math Pathways Corequisite Model

(Implementing Fall 2018)